

What is claimed is:

- 1 1. A method of producing a trick mode playback of a segment of video
2 containing a plurality of predictively encoded pictures comprising the steps of:
3 (a) decoding a portion of a predictive picture from the plurality of
4 predictive pictures; and,
5 (b) updating a portion of information stored in a memory with the
6 portion of the predictive picture.
- 1 2. The method according to claim 1, further comprising the step of repeating
2 steps (a) and (b) during the trick mode playback such that a portion of each of a
3 predetermined number of subsequent predictive pictures are decoded and used to
4 update a subsequent portion of the information stored in the memory.
- 1 3. The method according to claim 2, wherein each subsequent predictive
2 picture has been recorded after the predictive picture.
- 1 4. The method according to claim 2, wherein each subsequent predictive
2 picture has been recorded prior to the predictive picture.
- 1 5. The method according to claim 1, wherein step (b) further comprises the
2 step of updating a portion of the information stored in the memory exclusively with the
3 portion of the predictive picture.

1 6. The method according to claim 5, wherein the portion of the predictive
2 picture that is decoded has a substantially direct correspondence to the portion of the
3 information in the memory that is being updated.

7. The method according to claim 6, wherein the segment of video is an MPEG video segment that does not contain any intra pictures and each of the plurality of predictive pictures contains intra macroblocks.

1 8. The method according to claim 7, wherein the portion of the predictive
2 picture is comprised of intra macroblocks.

1 9. The method according to claim 1, wherein a playback speed of the fast
2 motion trick mode in a forward direction is greater than 3X.

1 10. The method according to claim 1, wherein the information stored in the
2 memory is a picture.

1 11. The method according to claim 10, wherein the picture stored in the
2 memory is initially a properly decoded picture.

1 12. A system for producing a trick mode playback of a segment of video
2 containing a plurality of predictive pictures comprising:

3 a memory for storing information; and

4 a video processor programmed to:

5 (a) decode a portion of a predictive picture from the plurality
6 of predictive pictures; and,

7 (b) update a portion of information stored in the memory
8 with the portion of the predictive picture.

1 13. The system according to claim 12, wherein the video processor is further
2 programmed to repeat steps (a) and (b) during the trick mode playback such that a
3 portion of each of a predetermined number of subsequent predictive pictures are
4 decoded and used to update a subsequent portion of the information stored in the
5 memory.

1 14. The system according to claim 13, wherein each subsequent predictive
2 picture has been recorded after the predictive picture.

1 15. The system according to claim 13, wherein each subsequent predictive
2 picture has been recorded prior to the predictive picture.

1 16. The system according to claim 12, wherein the video processor is
2 further programmed to update a portion of the information stored in the memory
3 exclusively with the portion of the predictive picture.

1 17. The system according to claim 16, wherein the portion of the predictive
2 picture that is decoded has a substantially direct correspondence to the portion of the
3 information in the memory that is being updated.

1 18. The system according to claim 17, wherein the segment of video is an
2 MPEG video segment that does not contain any intra pictures and each of the plurality
3 of predictive pictures contains intra macroblocks.

1 19. The system according to claim 18, wherein the portion of the predictive
2 picture is comprised of intra macroblocks.

1 20. The system according to claim 12, wherein a playback speed of the fast
2 motion trick mode in a forward direction is greater than 3X.

1 21. The system according to claim 12, wherein the information stored in the
2 memory is a picture.

1 22. The system according to claim 21, wherein the picture stored in the
2 memory is initially a properly decoded picture.